

SEQUENCE LISTING

<110> APPLERA CORPORATION

<120> ISOLATED HUMAN TRANSPORTER PROTEINS,
 NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
 AND USES THEREOF

<130> CL001362-US

<140> PCT/US03/06667

<141> 2003-03-05

<150> 60/361,335

<151> 2002-03-05

<160> 4

<170> FastSEQ for Windows Version 4.0

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<212> DNA

<213> Homo Sapien

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Gln Met Val Leu Ser Gln Glu Glu Pro Asp Ser Ala Arg Gly Thr Ser
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Glu Ala Gln Pro Leu Gly Pro Ala Pro Thr Gly Ala Ala Pro Pro Pro
          20          25          30
Gly Pro Gly Pro Ser Asp Ser Pro Glu Ala Ala Val Glu Lys Val Glu
          35          40          45
Val Glu Leu Ala Gly Pro Ala Thr Ala Glu Pro His Met Val Ser Glu
          50          55          60
Glu Pro Ala Arg Thr Glu Ala Gln Pro Gly Pro Ala Pro Ala Pro Pro
65          70          75          80
Pro Gly Pro Ser Asp Val Glu Lys Val Glu Val Glu Leu Ser Met Val
          85          90          95
Pro Ser Leu Glu Glu Pro Ala Ala Ala Glu Arg Glu Thr Asn Glu Ala
          100          105          110
Gln Pro Pro Gly Pro Ala Pro Ser Asp Asp Ala Pro Leu Pro Val Pro
          115          120          125
Gly Pro Ser Asp Val Ser Asp Gly Ser Val Glu Lys Val Glu Val Glu
          130          135          140
Leu Thr Arg Ser Thr Gly Asn Gln Gln Glu Pro Pro Glu Pro Pro Glu
145          150          155          160
Gly Gly Trp Gly Trp Leu Val Met Leu Ala Ala Met Trp Cys Asn Gly
          165          170          175
Ser Val Phe Gly Ile Gln Asn Ala Cys Gly Val Leu Phe Val Ser Met
          180          185          190
Leu Glu Thr Phe Gly Ser Lys Asp Asp Asp Lys Met Val Phe Lys Thr
          195          200          205
Ala Ala Trp Val Gly Glu Pro Pro Glu Pro Pro Glu Gly Gly Trp Gly
          210          215          220
Trp Leu Val Met Leu Ala Ala Met Trp Cys Asn Gly Ser Val Phe Gly
225          230          235          240
Ile Gln Asn Ala Gly Val Leu Phe Val Ser Met Leu Glu Thr Phe Gly
          245          250          255
Lys Asp Asp Asp Met Phe Lys Ala Ala Trp Val Gly Ser Glu Pro Pro
          260          265          270
Glu Pro Pro Glu Gly Gly Trp Gly Trp Leu Val Met Leu Ala Ala Met
          275          280          285
Trp Cys Asn Gly Ser Val Phe Gly Ile Gln Asn Ala Tyr Gly Val Leu
          290          295          300
Phe Val Ser Met Leu Glu Thr Phe Gly Ala Lys Asp Asp Asp Asn Met
305          310          315          320
Ala Phe Lys Ala Ala Trp Val Gly Gln Ser Leu Ser Met Gly Met Ile

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Val	Trp	Ala	Ser	Ile	Phe	Met	Phe	Val	Leu	Phe	Leu	Ala	Gly	Phe	Thr	785	790	795	800
Tyr	Arg	Pro	Leu	Val	Pro	Ser	Ser	Lys	Glu	Lys	Glu	Ser	Glu	Asp	Ser	805	810	815	
Arg	Ser	Ser	Phe	Phe	Ser	Arg	Arg	Lys	Leu	Ser	Pro	Pro	Lys	Lys	Ile	820	825	830	
Phe	Asn	Phe	Ala	Leu	Phe	Lys	Glu	Thr	Ala	Tyr	Ala	Val	Trp	Ala	Ala	835	840	845	
Gln	Gly	Ile	Pro	Leu	Ala	Leu	Phe	Gly	Tyr	Phe	Val	Pro	Tyr	Val	His	850	855	860	
Leu	Met	Lys	His	Val	Asn	Glu	Arg	Phe	Gln	Asp	Glu	Lys	Asn	Lys	Glu	865	870	875	880
Val	Val	Leu	Met	Cys	Ile	Gly	Val	Thr	Ser	Gly	Val	Gly	Arg	Leu	Leu	885	890	895	
Phe	Gly	Arg	Ile	Ala	Asp	Tyr	Val	Pro	Gly	Val	Lys	Lys	Gly	Ile	Pro	900	905	910	
Leu	Ala	Leu	Phe	Gly	Tyr	Phe	Val	Pro	Tyr	Val	His	Leu	Met	His	Val	915	920	925	
Glu	Arg	Phe	Asp	Asn	Lys	Glu	Val	Met	Cys	Ile	Gly	Val	Thr	Ser	Gly	930	935	940	
Val	Gly	Arg	Leu	Leu	Phe	Gly	Arg	Ile	Ala	Asp	Tyr	Pro	Gly	Val	Lys	945	950	955	960
Lys	Ser	Gly	Ile	Pro	Leu	Ala	Leu	Phe	Gly	Tyr	Phe	Val	Pro	Tyr	Val	965	970	975	
His	Leu	Met	Asn	His	Val	Lys	Glu	Arg	Phe	Lys	Asp	Val	Asn	Asn	Lys	980	985	990	
Glu	Val	Leu	Phe	Met	Cys	Ile	Gly	Val	Thr	Ser	Gly	Val	Gly	Arg	Leu	995	1000	1005	
Leu	Phe	Gly	Arg	Ile	Ala	Asp	Tyr	Leu	Pro	Gly	Val	Lys	Lys	Gln	Val	1010	1015	1020	
Tyr	Leu	Gln	Val	Leu	Ser	Phe	Phe	Phe	Ile	Gly	Leu	Met	Ser	Met	Met	1025	1030	1035	1040
Ile	Pro	Leu	Cys	Ser	Ile	Phe	Gly	Ala	Leu	Ile	Ala	Val	Cys	Leu	Ile	1045	1050	1055	
Met	Gly	Leu	Phe	Asp	Gly	Cys	Phe	Ile	Ser	Ile	Met	Ala	Pro	Ile	Ala	1060	1065	1070	
Phe	Glu	Leu	Val	Gly	Ala	Gln	Asp	Val	Ser	Gln	Val	Tyr	Leu	Gln	Val	1075	1080	1085	
Leu	Ser	Phe	Phe	Phe	Ile	Gly	Leu	Ser	Met	Met	Ile	Pro	Leu	Cys	Ser	1090	1095	1100	
Phe	Gly	Ala	Leu	Ile	Ala	Cys	Leu	Ile	Met	Gly	Leu	Phe	Asp	Gly	Cys	1105	1110	1115	1120
Phe	Ile	Ser	Ile	Met	Ala	Pro	Ile	Ala	Phe	Glu	Leu	Val	Gly	Gln	Asp	1125	1130	1135	
Ser	Gln	Ser	Val	Tyr	Leu	Gln	Val	Leu	Ser	Phe	Phe	Phe	Ile	Gly	Leu	1140	1145	1150	
Thr	Ser	Met	Met	Ile	Pro	Leu	Cys	Ser	Val	Phe	Gly	Ala	Leu	Ile	Ala	1155	1160	1165	
Leu	Cys	Leu	Ile	Met	Gly	Leu	Phe	Asp	Gly	Cys	Phe	Ile	Ser	Ile	Met	1170	1175	1180	
Ala	Pro	Ile	Ala	Phe	Glu	Leu	Val	Gly	Pro	Gln	Asp	Ala	Ser	Gln	Gln	1185	1190	1195	1200
Ala	Ile	Gly	Phe	Leu	Leu	Gly	Phe	Met	Ser	Ile	Pro	Met	Thr	Val	Gly	1205	1210	1215	
Pro	Pro	Ile	Ala	Gly	Leu	Leu	Arg	Asp	Lys	Leu	Gly	Ser	Tyr	Asp	Val	1220	1225	1230	
Ala	Phe	Tyr	Leu	Ala	Gly	Val	Pro	Pro	Leu	Ile	Gly	Gly	Ala	Val	Leu				

1235	1240	1245
Cys Phe Ile Pro Trp Ile	His Ser Lys Lys Gln Arg Ala Ile Gly Phe	
1250	1255	1260
Leu Leu Gly Phe Met Ser Ile Pro Met Thr Val Gly Pro Pro Ala Gly		
1265	1270	1275
Leu Leu Asp Lys Leu Gly Ser Tyr Asp Ala Phe Tyr Leu Ala Gly Pro		1280
	1285	1290
Pro Ile Gly Gly Ala Val Leu Cys Ile Pro Trp Ile His Ser Lys Lys		1295
	1300	1305
Gln Arg Ser Ala Ile Gly Phe Leu Leu Gly Phe Met Ser Ile Pro Met		1310
	1315	1320
Thr Val Gly Pro Pro Val Ala Gly Leu Leu His Asp Lys Leu Gly Ser		1325
	1330	1335
Tyr Asp Leu Ala Phe Tyr Leu Ala Gly Ile Pro Pro Phe Ile Gly Gly		1340
1345	1350	1355
Ala Val Leu Cys Leu Ile Pro Trp Ile His Ser Lys Lys Gln Arg Gln		1360
	1365	1370
Glu Ile Ser Lys Thr Thr Gly Lys Glu Lys Met Glu Lys Met Leu Glu		1375
	1380	1385
Asn Gln Asn Ser Leu Leu Ser Ser Ser Ser Gly Met Phe Lys Lys Glu		1390
	1395	1400
Ser Asp Ser Ile Ile Glu Ile Ser Lys Thr Gly Glu Lys Met Glu Lys		1405
	1410	1415
Met Leu Asn Gln Ser Leu Leu Ser Ser Ser Ser Gly Phe Lys Lys Glu		1420
1425	1430	1435
Ser Asp Ser Ile Ile Ser Glu Ile Ser Lys Asn Thr Gly Gly Glu Lys		1440
	1445	1450
Met Glu Lys Met Leu Ala Asn Gln Ser Ser Leu Leu Ser Ser Ser Ser		1455
	1460	1465
Gly Ile Phe Lys Lys Glu Ser Asp Ser Ile Ile		1470
1475	1480	